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INSHORE SURVEY PROGRAM

INTERIM REPORT XI

Reference 52-13

CHESAPEAKE BAY INSTITUTE
of
THE JOHNS HOPKINS UNIVERSITY

INSHORE SURVEY PROGRAM

INTERIM REPORT XI

OFFSHORE OCEANOGRAPHIC SURVEY OF 13 TO 14 FEBRUARY 1952

By

M. J. Pollak

This report contains results of work carried out for the Office of
Naval Research of the Navy Department under Project NR 084-005,
Contract Nonr-248(07), and for the U. S. Navy Hydrographic Office.

Reference 52-13
June 1952

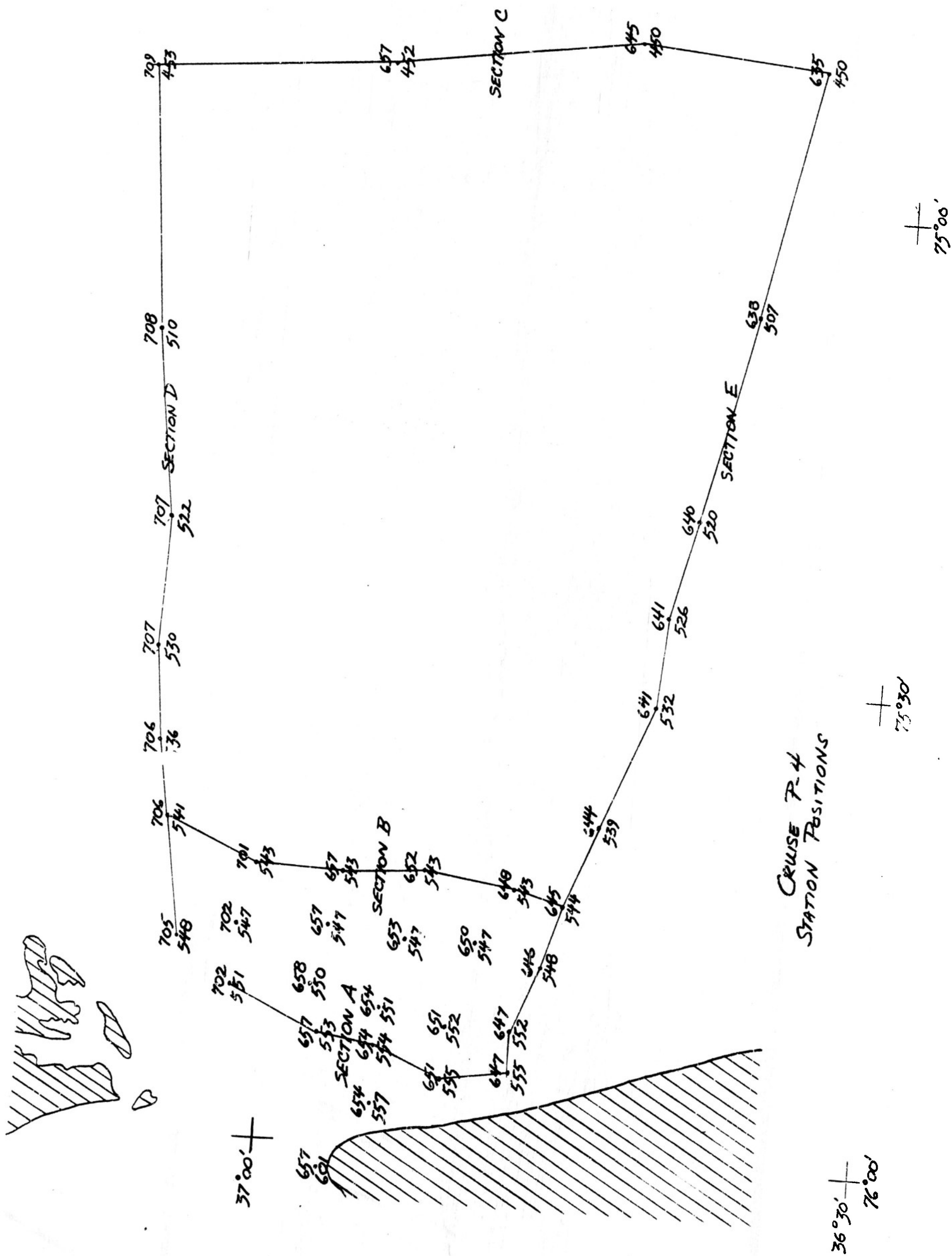
Wayne V. Burt
Project Supervisor

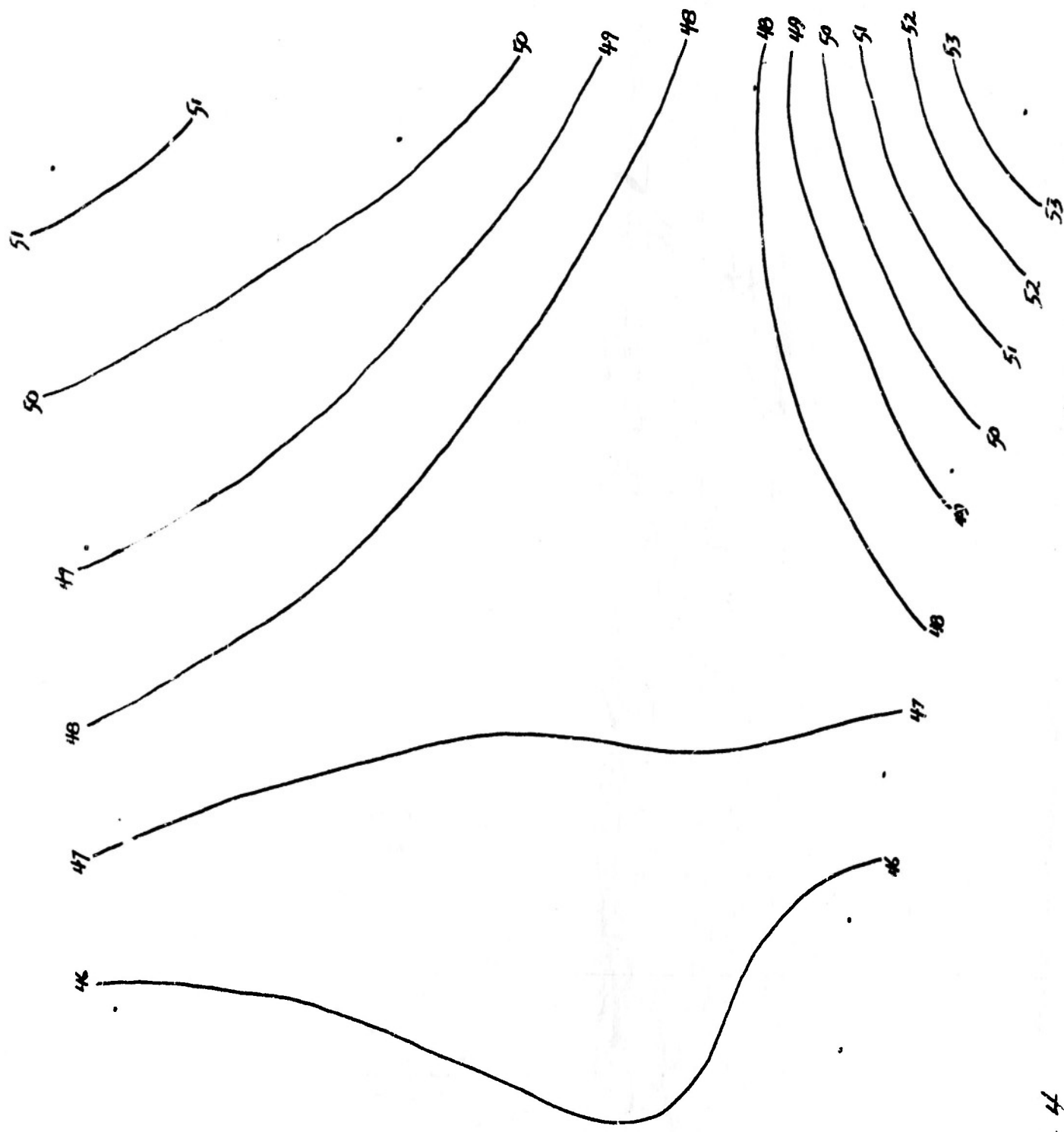
The fourth survey of oceanographic conditions east of the Virginia Capes (Cruise PARKER 4) was carried out on 13 and 14 February 1952 by Chesapeake Bay Institute personnel aboard the USC&GS Ship PARKER, Cdr. G. C. Mast, USC&GS, commanding. In addition to the survey stations this cruise included three 24 hour anchor stations which will be reported separately.

The survey consisted of 36 stations on which temperature and specific conductance were determined at various depths by means of the Chesapeake Bay Institute conductivity-temperature-indicator (CBI-CTI). Salinity was determined graphically from specific conductance and temperature. The depth of observations was determined from the amount of wire out and the wire angle. Station positions based on SHORAN and visual fixes were furnished by the ship's personnel.

Although an attempt was made to follow approximately the same station plan and depths of observations as on the previous surveys of the area (Inshore Survey Program, Interim Reports IV, IX and X) the inclement weather at this time of year necessitated a curtailment of the observational program. Even so, sufficient coverage was achieved to bring out the main thermo-haline features of the area. These were substantially the same as those found during the fall and summer cruises. The series of distribution charts and sections are self-explanatory.

The temperature and salinity data in the appendix are rounded off to the nearest tenth degree Centigrade and tenth per mille. While the CTI calibration did not present the problems encountered on the two previous cruises, the present development of the instrument does not warrant a



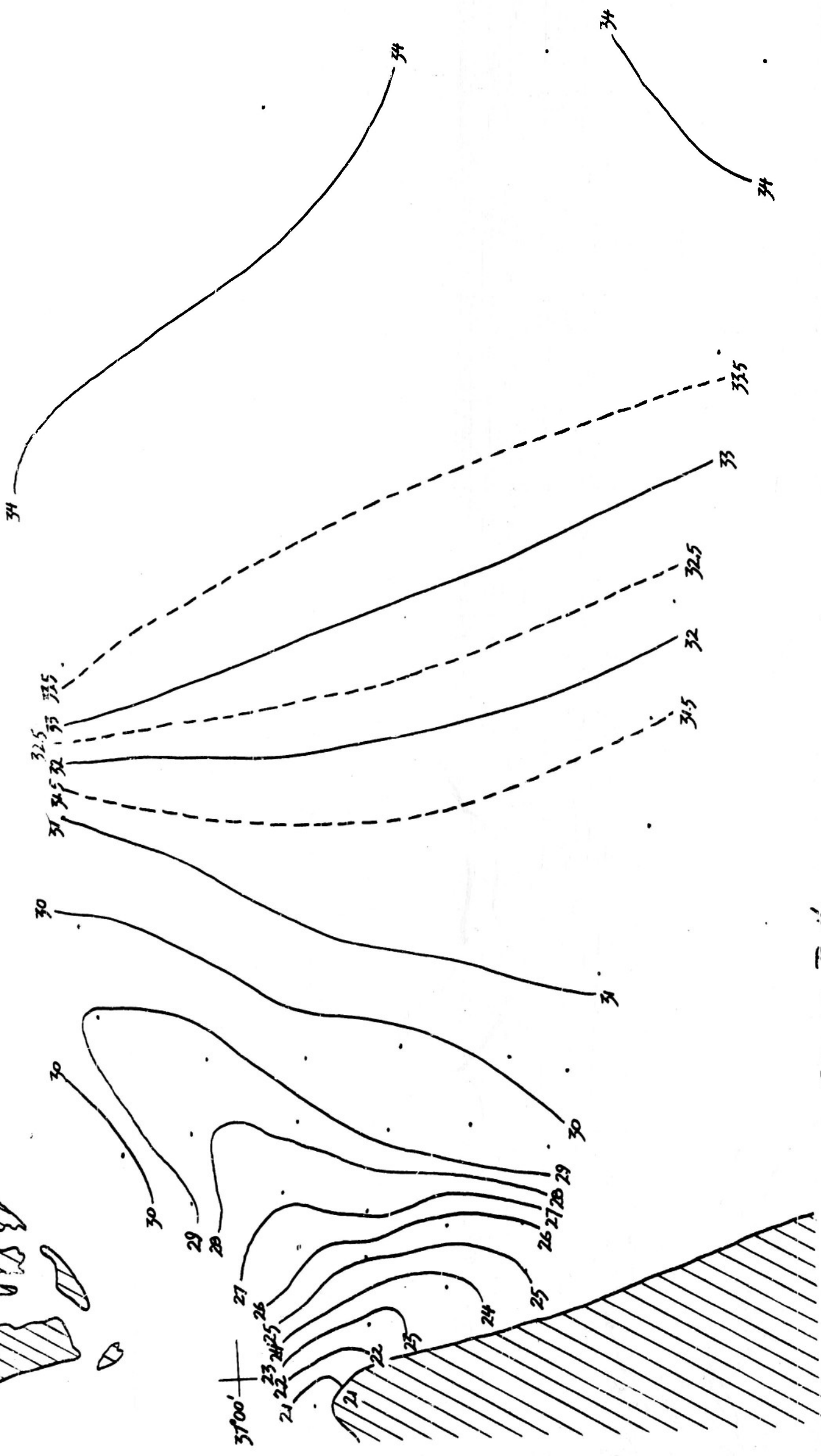


CRUISE P. 4
SURFACE TEMPERATURE (°F)

36°30' 76°00'

75°30'

75°00'

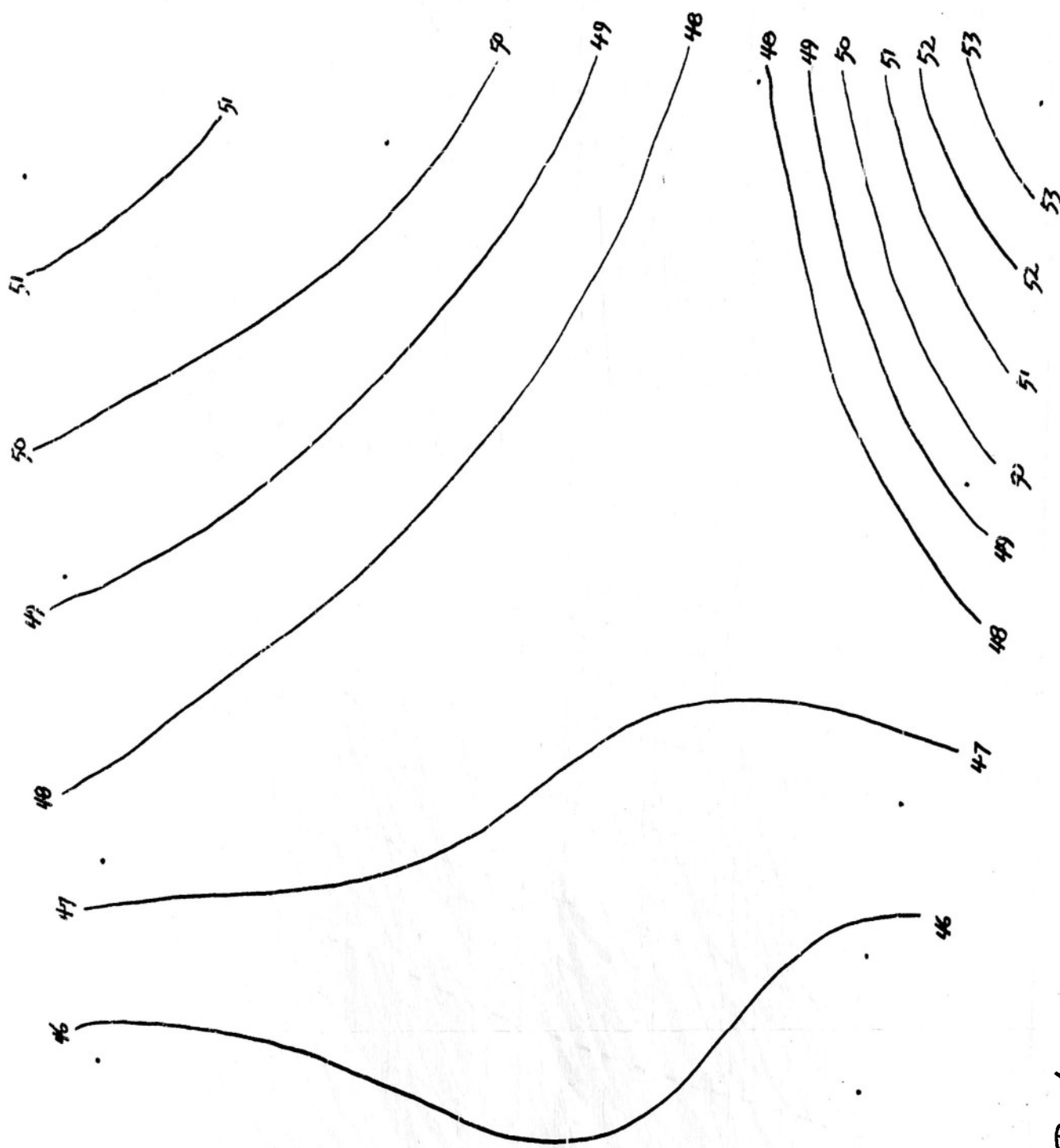


CRUISE F-4
SURFACE SALINITY (‰)

75°00'

75°30'

36°30' 76°00'



CRUISE P-4
10 FT. TEMPERATURE (°F)

37°00'+

76°00'

75°30'

75°00'